



## *Joint Concept Development and Experimentation Program Overview*

*Mr. Dan Franken  
Director, Joint Futures Lab  
U.S. Joint Forces Command, J9  
6 FEB 2002*



# *Joint Experimentation*

*Joint Concept Development and Experimentation*



## Vision

**Lead the transformation of America's military  
Through joint experimentation**

## Mission

**What:** Develop, explore and assess new joint concepts, organizational structures and emerging technologies

**How:** Through a process of discovery, innovation, and experimentation

**Why:** To drive Doctrine, Organization, Training, Materiel, Leadership, Personnel and Facilities (DOTMLPF) changes that achieve the optimal future joint force capability



# *JCDE Concepts and Events to Date*

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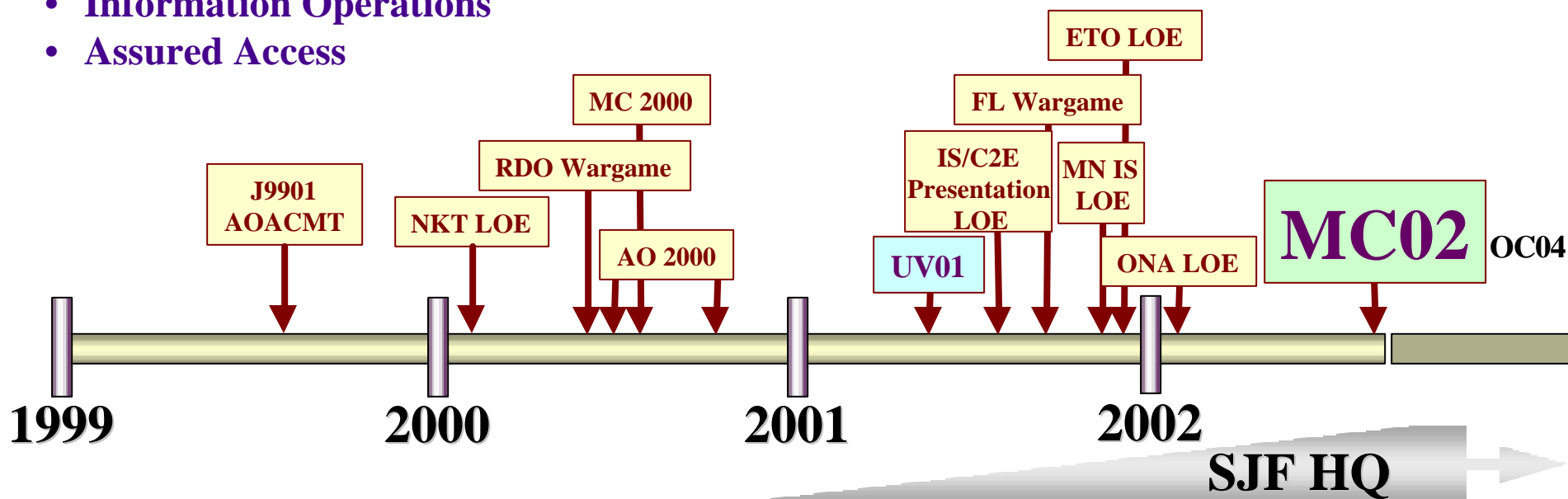


## Concepts

- Rapid Decisive Operations
- Focused Logistics
- Attack Operations Against Critical Mobile Targets
- Joint Interactive Planning
- Common Relevant Operational Picture
- Adaptive Joint Command and Control
- Information Operations
- Assured Access

- Operational Net Assessment
- Effects Based Operations
- Joint Intelligence, Surveillance and Reconnaissance

**Pre-Concept: Joint Operational Warfighting**





# *Capstone Elements of Future Joint Operations*

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**How do we precisely apply joint, interagency, multinational capabilities to create strategic and operational effects that destroy the enemy's coherence?**

**How do we apply the power of networking to create a collaborative, inter-dependent joint force?**

**Effects Based**

**Networked Force**

**Knowledge Centric**

**Coherently Joint**

**21<sup>st</sup> Century  
Joint Force**

**How does knowledge enable us to precisely apply capability?**

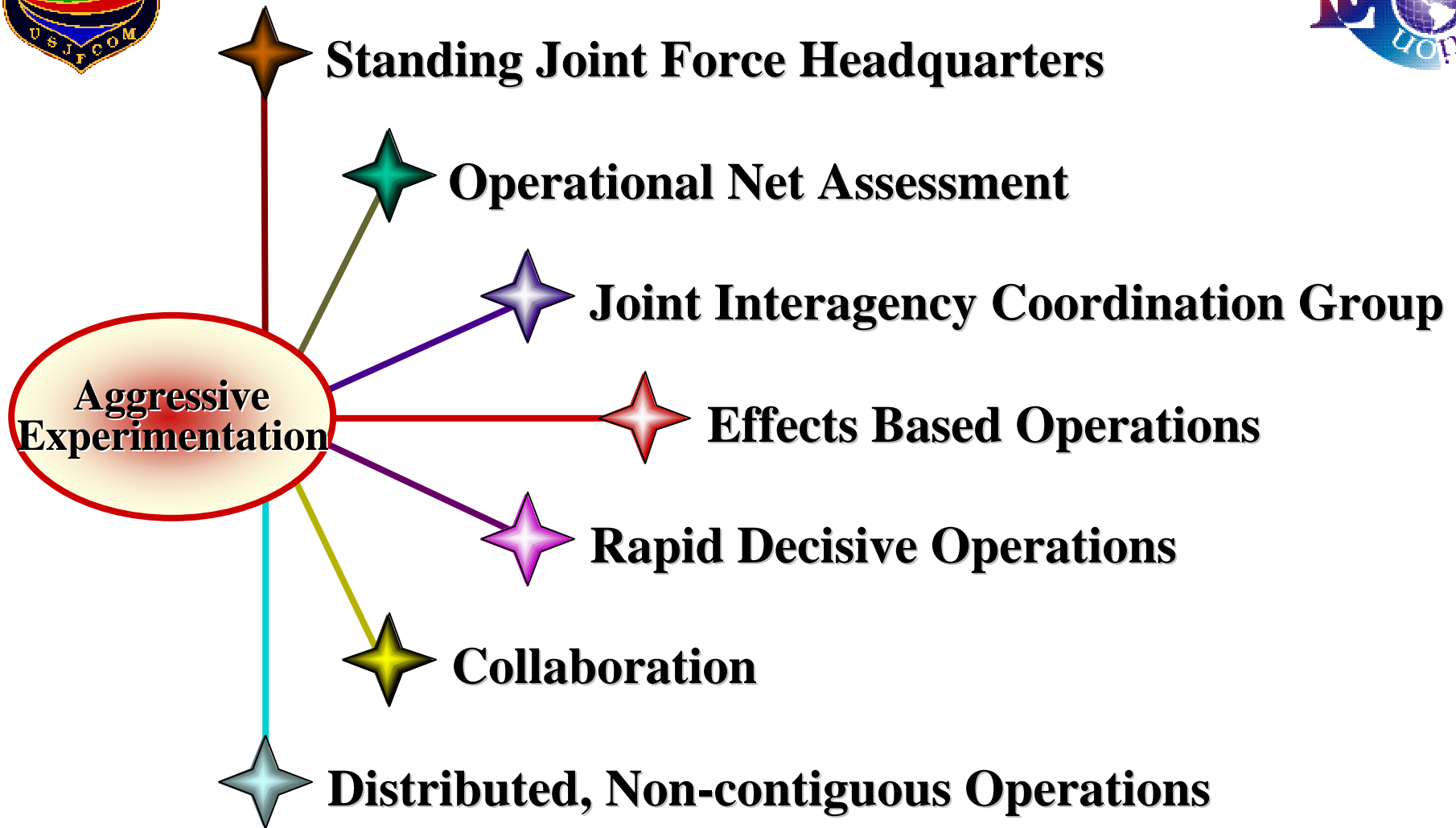
**How do we build "joint" forces, operations, systems?**





# *A String of Successes*

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**Decision Superiority!**

# Joint Futures Lab

## PROJECT ALPHA





# *Project A"...*

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- **A new cell in Joint Futures Lab**
- **S&T + new ideas**  **Rapid concept generation, analysis and prototyping**
- **Requires significant relationship with academia and industry**
- **Domain:**
  - **Information Age**
  - **Global Environment**
  - **2010-2020**



# *Joint Operational Warfighting*

*LTC Kevin Woods  
Concepts Department  
U.S. Joint Forces Command, J9  
6 FEB 2002*



# *Joint Operational Warfighting*

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**Joint Operational Warfighting is a concept that describes how the future joint force will fight in the next decade.**

*What is new? ...what is new is the attempt to organize successful concepts from past and present around a unifying theme and articulate that theme so it can be understood, shared, and applied more readily.*

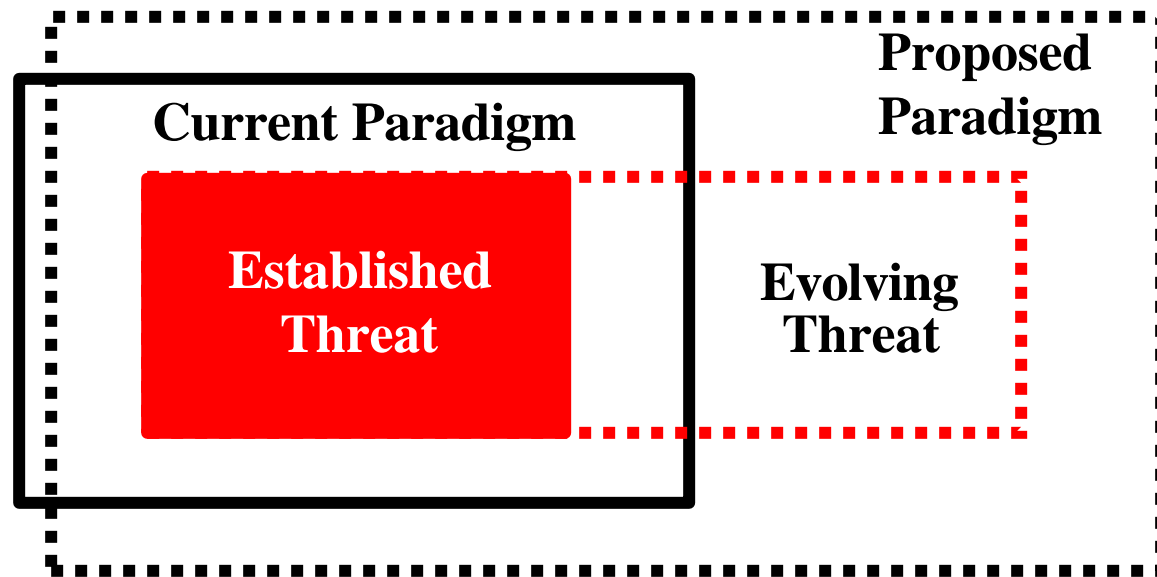


# *The Paradigm*

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*The conditions of war, the battlespace, and the adversary's methods keep changing...*



*like creatures in nature, we must adapt to the new environment if we are to continue to dominate...*



# *Joint Operational Warfighting*

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# Warfighting Culture

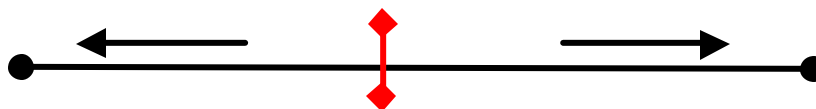
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## Traditional

**Mechanistic  
Reductionist  
Linear  
Contiguous  
Massed  
Patterned  
Effects-aware  
Methodical  
Military-Centric  
Confrontation  
Industrial  
Hierarchical  
Centralized  
Analytical**

**...a shift in bias  
along a sliding  
scale:**



## Expanding...

**Complexity  
Systemic  
Non-linear  
Non-contiguous  
Distributed  
Unpredictable  
Effects-focused  
Opportunistic  
All elements of power  
Dislocation  
Information  
Non-hierarchical  
Decentralized  
Intuitive**





# *Joint Operational Warfighting*

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**Adaptive  
Command**

**SYNERGY**

**ADAPTABILITY**

*Warfighting  
Culture*

**Singular  
Battlespace**

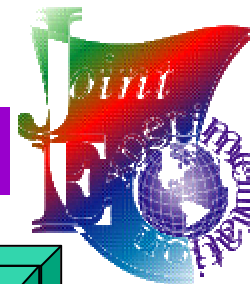
**Distributed  
Operations**

**COMBAT EFFECTIVENESS**

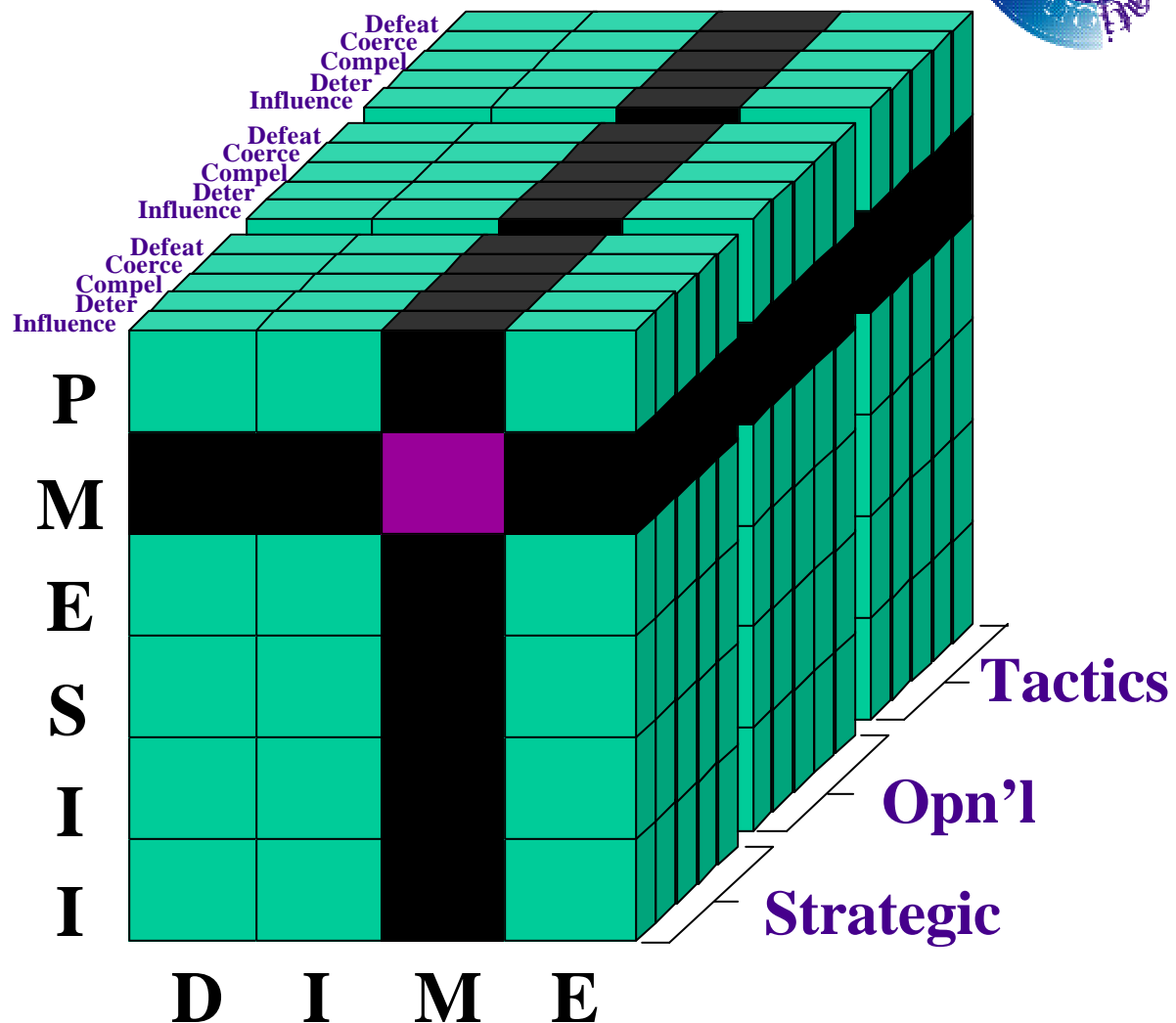


# *Singular Battlespace*

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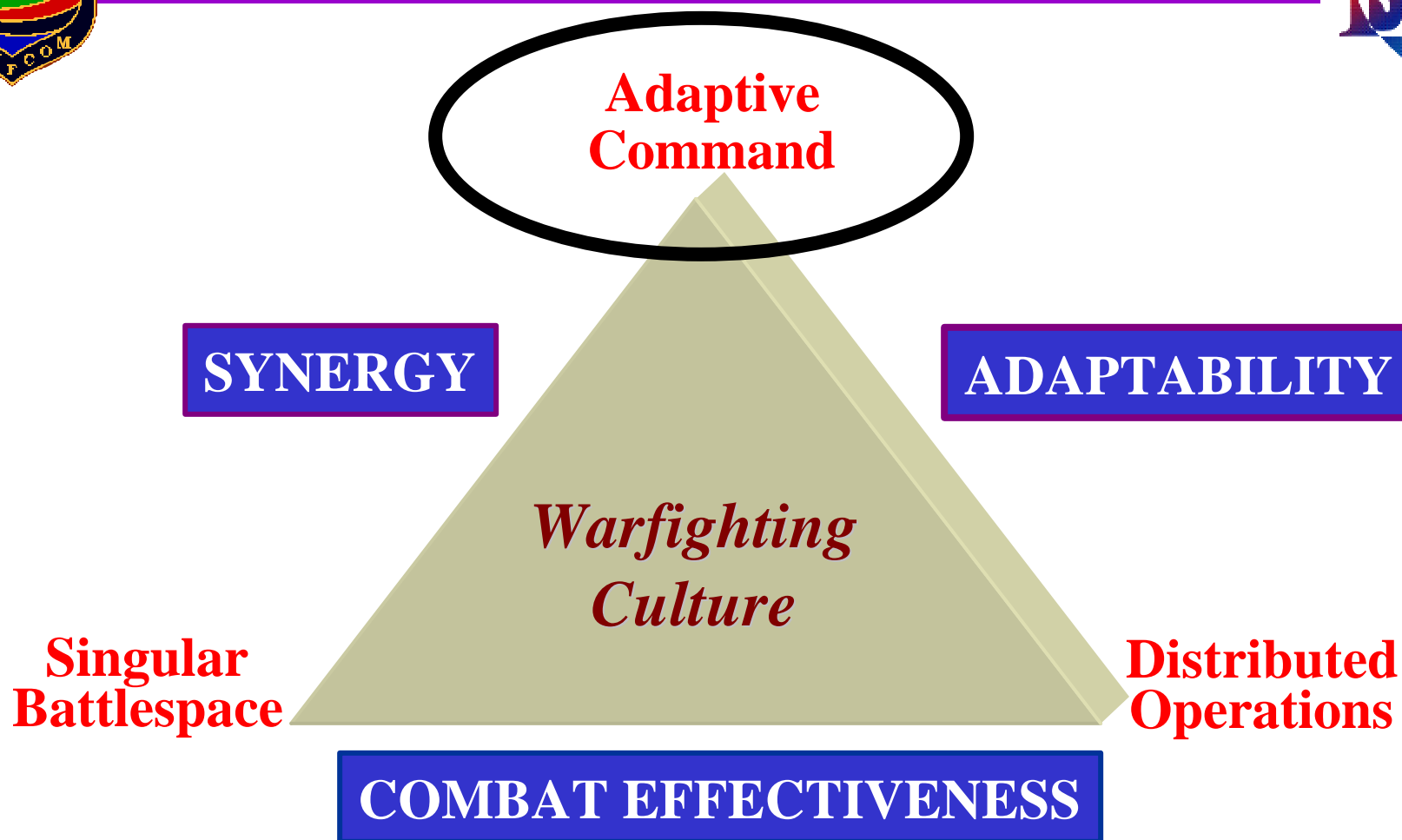
- Full breadth and depth
- Comprehensive connectivity
- Interdependence
- A system of nodes/networks





# *Joint Operational Warfighting*

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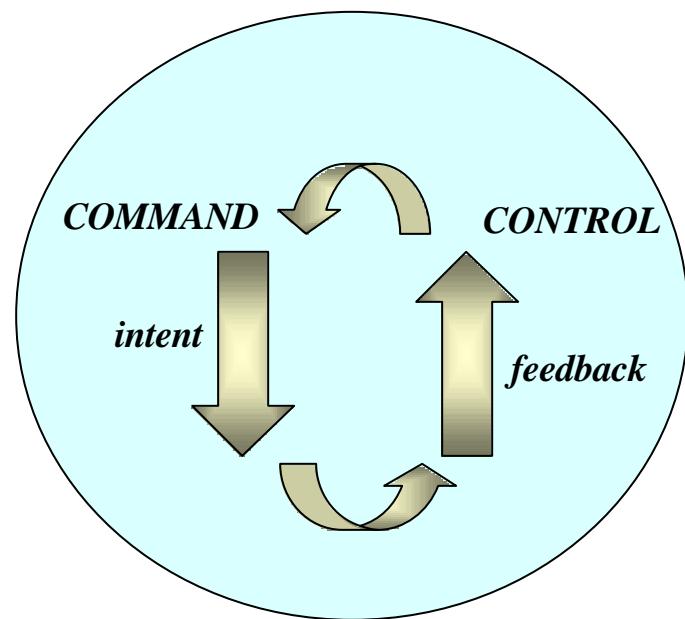
# *Adaptive Command*

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## Characteristics:

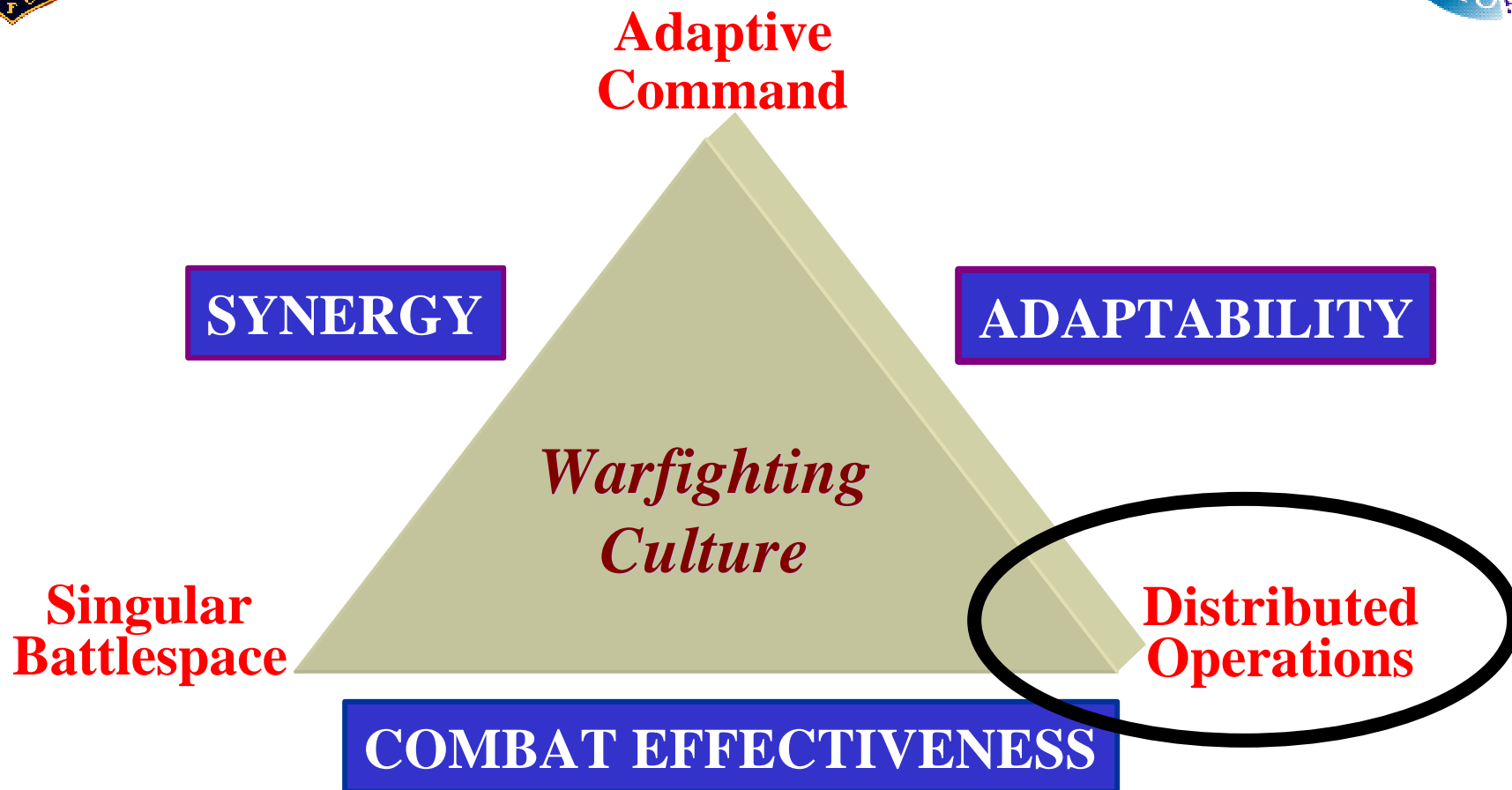
- Commanders Intent
- Effects-focused
- Feedback and measures vs. prescriptive control
- Connectivity
- Opportunism
- Proliferation of Decision Makers
- Emergent self-synchronization
- Collaboration
- Flexibility
- Reduced latency –  
Sense/Plan/Decide/Act cycle





# *Joint Operational Warfighting*

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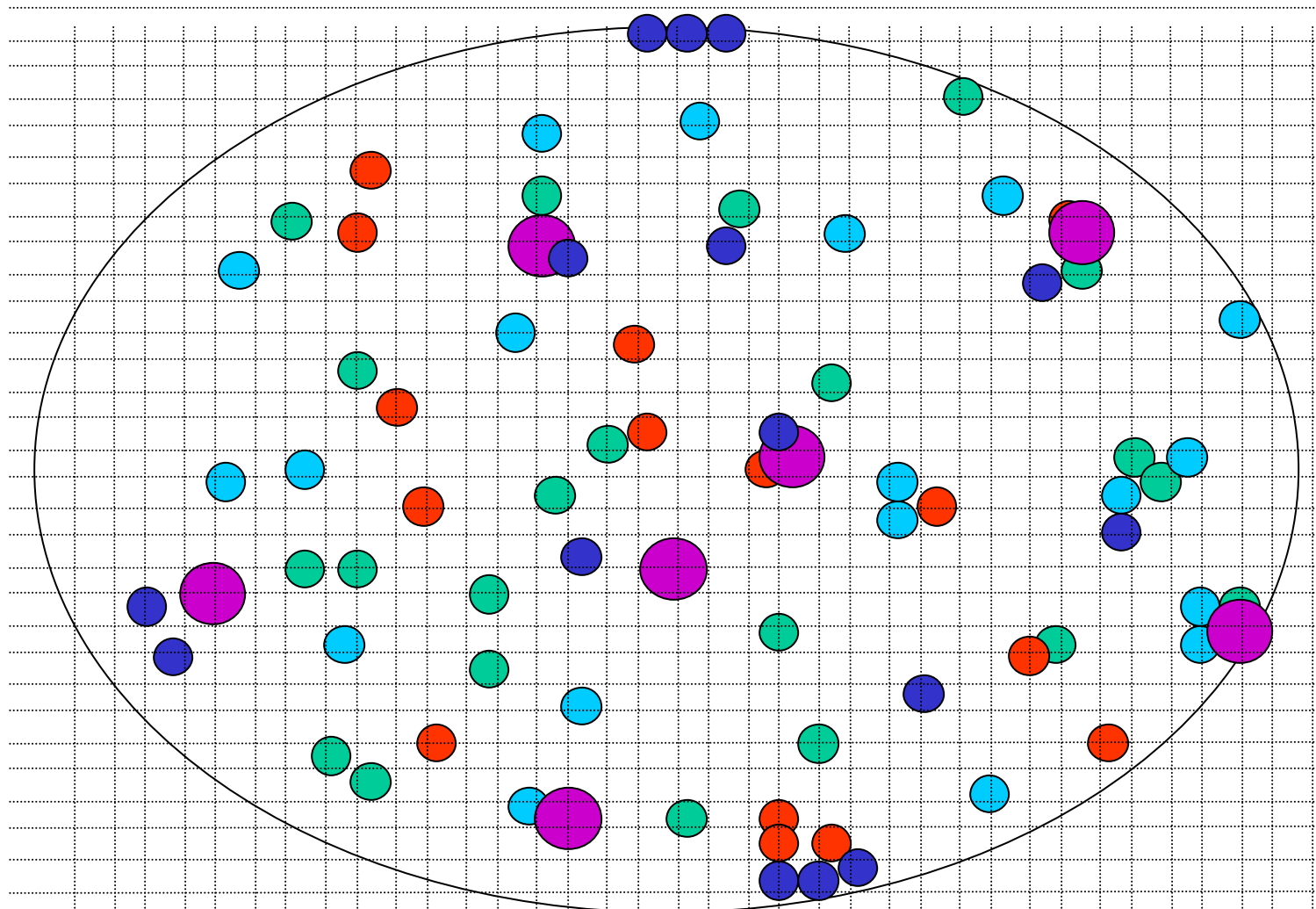


# *Distributed Operations*

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## *A Distributed System...*





# *Distributed Operations*

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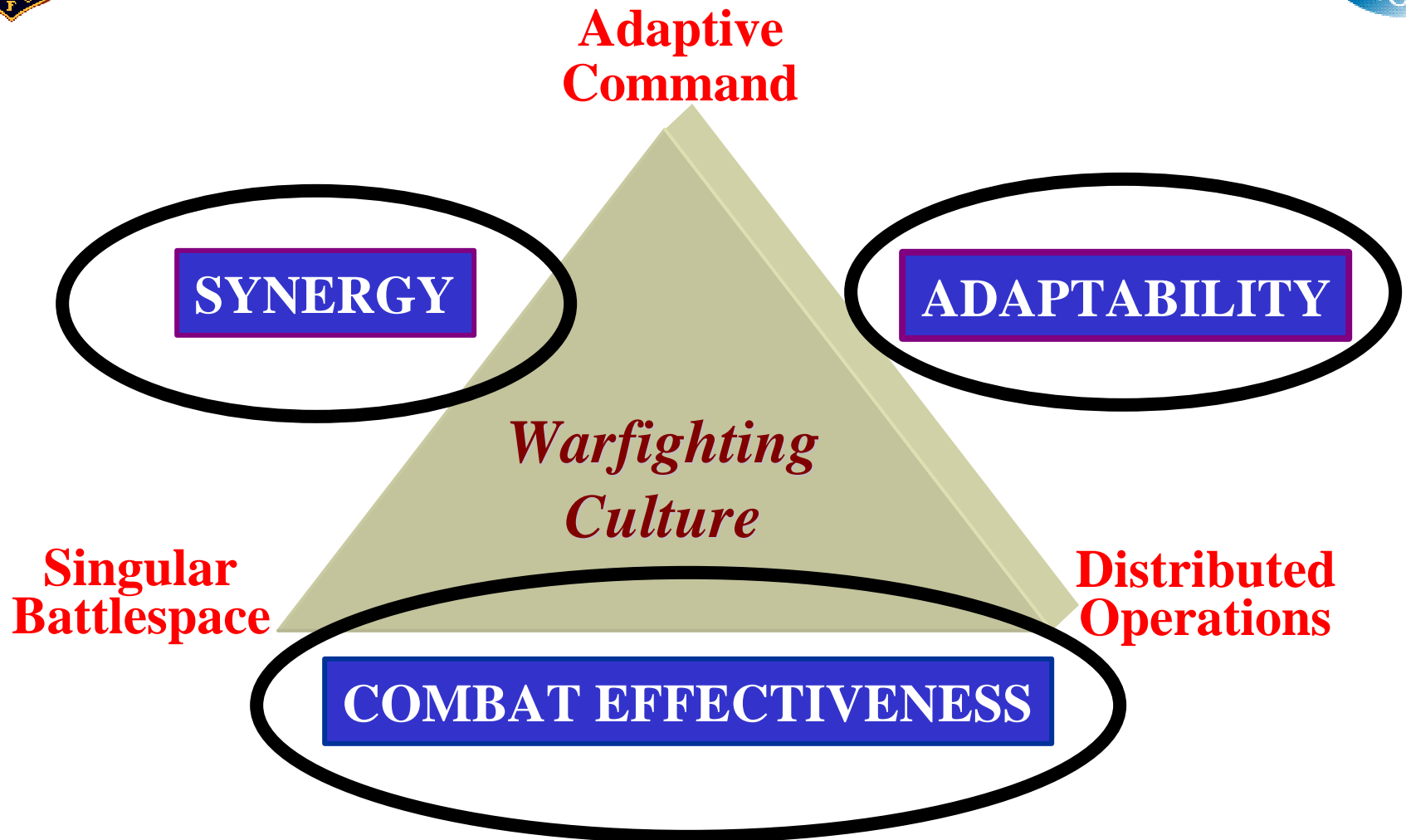
## Characteristics:

- Distributed
- Dispersed
- Dislocation
- Full Battlespace Presence
- Operational Nodes
- Simultaneity
- Multi-dimensional & -directional
- Unpredictable
- Increased Surface Area
- Control
- Autonomy
- Agile
- Interdependence
- Task Organized & tailored
- Joint arms
- Speed
- Scalable



# *Joint Operational Warfighting*

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# *Summary and Conclusion*

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## **Joint Operational Warfighting**

- **an articulation of warfighting first principles...**
- **a conceptual framework...**
- **requires joint experimentation...**

# **Joint Experimentation**

*From Today's Concepts to Tomorrow's Capabilities*



*Opportunities Abound for USJFCOM*

**The Future is our Area of Responsibility**